

WHAT IS CLAIMED IS:

1. A fluid control assembly comprising:
a fluid control film comprising a first side and a second side, the first side comprising
5 a microstructured surface with a plurality of channels on the first side; and
an exterior building wall assembly comprising a substrate layer having a major
surface, the substrate major surface associated with the fluid control film.
- 10 2. The fluid control assembly of claim 1 wherein the substrate major surface is associated
with the first side of the fluid control film.
3. The fluid control assembly of claim 1 wherein the substrate major surface is associated
with the second side of the fluid control film.
- 15 4. The fluid control assembly of claim 1, where the fluid control film is moisture vapor
permeable.
5. The fluid control assembly of claim 1, further comprising a non-woven layer
associated with the first side of the fluid control film.
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6. The fluid control assembly of claim 1, where the substrate is a sealed insulated panel.
7. The fluid control assembly of claim 1, further comprising adhesive on the on the
second side of the fluid control film.
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8. The fluid control assembly of claim 7, wherein the adhesive is a continuous layer.
9. The fluid control assembly of claim 7, wherein the adhesive is discontinuous.
- 30 10. The fluid control assembly of claim 1 wherein the substrate is a frame for a defined
opening.

11. The fluid control assembly of claim 10 wherein the frame is a window jamb.
12. The fluid control assembly of claim 10 wherein the frame is a door jamb.
- 5 13. The fluid control assembly of claim 1 wherein the substrate is a window sill.
14. The fluid control assembly of claim 1 wherein the substrate is wall sheathing.
15. The fluid control assembly of claim 1 wherein the substrate is a window.
- 10 16. The fluid control assembly of claim 1 wherein the substrate is a roof.
17. The fluid control assembly of claim 1 wherein the substrate is exterior cladding.
- 15 18. The fluid control assembly of claim 1 wherein the substrate is an exterior protrusion.
19. The fluid control assembly of claim 1 wherein the substrate has an interior side and an exterior side.
- 20 20. The fluid control assembly of claim 1 wherein the fluid control film comprises an anti-microbial additive.
21. The fluid control assembly of claim 1 wherein major surface of the substrate is in a plane parallel to the plane of the wall assembly.
- 25 22. The fluid control assembly of claim 1 wherein the major surface of the substrate is in a plane not parallel to the plane of the wall assembly.

23. A method of controlling fluid in a wall assembly comprising

providing an exterior building wall assembly;

providing a fluid control film, the fluid control film comprising a first side and a second side, the first side comprising a microstructured surface with a plurality of channels on the first side; and

affixing the fluid control film to a surface of the wall assembly .

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